INTERNATIONAL SEARCH REPORT

A. CLASSII IPC 7	FICATION OF SUBJECT MATTER C12Q1/68 G01N33/30 A61K39	/395 A61K31/7088	· · · · · · · · · · · · · · · · · · ·
ocording to	o international Patent Classification (IPC) or to both national class	itication and IPC	
	SEARCHED		
Ainimum do IPC 7	currentation searched (classification system followed by classific C12Q G01N A61K	cation symbols)	
Ocumental	lion searched other than minimum documentation to the extent the	at such documents are included in the fields so	earched
lectronic d	ata base consulted during the international search (name of data	base and, where practical, search terms used	ŋ
EPO-In	ternal, BIOSIS, EMBASE, WPI Data,	PAJ, EMBL	
. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.
X	WO 01/77389 A (INCYTE GENOMICS SEILHAMER JEFFREY J (US); MIKIT (US); TA) 18 October 2001 (2001 page 2, line 18 page 3, line page 10, line 30 - page 20, line claims 1-19 -& DATABASE GENESEQ EBI; 14 February 2002 (2002-02-SHIFFMAN ET AL.: "Human DNA seq expressed during foam cell differentiation" XP002302276 Database accession no. AAS94761 abstract	A THOMAS -10-18) 11 12 12 14), 14), 14ence #16	1-12,19, 20
X Fur	ther documents are listed in the continuation of box C.	Patent family members are listed	In annex.
"A" docum consi "E" eartler tilling "L" docum which citatik "O" docum other "P" docum	ategones of cited documents: ment defining the general state of the art which is not detered to be of particular relevance document but published on or after the international date the definition of the defini	 'T' tater document published after the into or priority date and not in conflict with cited to understand the principle or it invention 'X' document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the different control of particular relevance; the cannot be considered to involve an indocument is combined with one or ments, such combined with one or ments, such combination being obvitin the art. '&' document member of the same pater. 	h the application but heavy underlying the claimed invention of the considered to to tocument is taken alone claimed invention inventive step when the nore other such docu-ous to a person skilled
	e actual completion of the international search	Date of mailing of the international se	arch report
	12 November 2004	06/12/2004	
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Hagenmaier, S	

	Mion) DOCUMENTS CONSIDERED TO BE RELEVANT	Determent to other the
Calegory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/46465 A (KINGSMAN SUSAN MARY; WARD NEIL RAYMOND (GB); KRIGE DAVID (GB); WHITE) 13 June 2002 (2002-06-13) abstract page 21, line 12 claims 1-77 -& DATABASE GENESEQ EBI; 13 June 2002 (2002-06-13), WHITE ET AL.: "Hypoxia-regulated protein coding sequence #79" XP002302277 Database accession no. ABV78059 abstract	1-12,19,
X	EP 1 225 224 A (NOJIMA HIROSHI; KYOWA HAKKO KOGYO KK (JP)) 24 July 2002 (2002-07-24) abstract claims 20,23,25,26,28,31,32,60,61,64,65,70,72,76 page 34, line 53 - line 57 -& DATABASE GENSEQ EBI; 15 June 2001 (2001-06-15), "Human shear stress-response coding sequence SEQ ID NO: 15" XP002302278 Database accession no. AAH02881 abstract	1-5, 7-12,19, 20
X	SHEN M ET AL: "Induction of basic helix-loop-helix protein DEC1 (BHLHB2)/Stra13/Sharp2 in response to the cyclic adenosine monophosphate pathway." EUROPEAN JOURNAL OF CELL BIOLOGY. MAY 2001, vol. 80, no. 5, May 2001 (2001-05), pages 329-334, XP008037461 ISSN: 0171-9335 the whole document	1,2
A	RICE TREVA ET AL: "Genomewide linkage scan of resting blood pressure: HERITAGE Family Study. Health, Risk Factors, Exercise Training, and Genetics." HYPERTENSION. JUN 2002, vol. 39, no. 6, June 2002 (2002-06), pages 1037-1043, XP002302275 ISSN: 1524-4563 the whole document	

INTERNATIONAL SEARCH REPORT

Box	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of Item 1.b of the first sheet)
1.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ition, the international search was carried out on the basis of:
	a.	type of material
		X a sequence listing
		table(s) related to the sequence listing
	ь.	format of material
		X in written format
		X In computer readable form
	c.	time of filing/fumishing
		x contained in the international application as filed
		X filed together with the international application in computer readable form
		furnished subsequently to this Authority for the purpose of search
2.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Addi	tional comments:

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: 13-18 (all completely) because they relate to parts of the international Application that do not comply with the prescribed requirements to such
an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.:
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this International application, as follows:
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the dalms; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 13-18 (all completely)

Present claims 13 and 14 relate to the method of claim 12 further comprising steps of using a "test target protein" for identifying a "test compound" which is useful in the treatment of CAD. Claim 15 relates to the methods of claims 13 and 14 further comprising the step of formulating a test compound into a pharmaceutical composition. The methods of claims 13,14 and 15 are considered to comprise different and irreconcilable types of processes, so that the subject matter for which protection is sought is not clearly defined (Art. 6 PCT). Moreover, due to the fact that neither the "test target protein" of claims 13 and 14 nor the "test compound" of claim 15 are further defined and due to the fact that no specific examples of such "test target protein" or "test compound" are disclosed in the patent specification, a meaningful search for the different processes of claims 13-15 was not possible.

Although claim 16 refers to a method of treatment of the human/animal body a search could have been carried out and based on the alleged effects of the compound. However due to reasons given below, such search was not possible.

Present claims 16 and 17 relate to a compound wherein the compound is only defined by reference to a desirable characteristic or property, namely a compound being identifiable by a method according to claims 13 and 14. However, this functional feature defining the result to be achieved in connection with an indefinite structural feature, as is the case here, cannot assist in rendering the claim clear, since it still leaves open what exactly the subject-matter is for which patent protection is sought. This lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Due to the fact that the patent specification does not disclose any clear examples of such compounds, the lack of clarity (Art. 6 PCT) is such that no search could be carried out for any subject matter covered by claims 16 and 17.

Present claim 18 refers to a method which is only defined by a result to be achieved, namely "identifying other components of the CAD biochemical pathway of which BHLHB2 is a component". The patent specification does not disclose any technical teaching of how to practice such method. Furthermore the term "the CAD biochemical pathway of which BHLHB2 is a component" is considered completely unclear. The method of claim 18 is therefore considered neither clear nor supported (Art. 6 PCT). The lack of clarity and support is such that a meaninful search of the subject matter claimed was not possible.

The applicant's attention is drawn to the fact that claims relating to

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT **Tormation on patent family members

Patent document cited in search report		Publication date		Patent family member(8)	Publication date
WO 0177389	A	18-10-2001	AU 5135101 A CA 2403946 A1 EP 1358347 A2 WO 0177389 A2 US 2003165924 A1		23-10-2001 18-10-2001 05-11-2003 18-10-2001 04-09-2003
WO 0246465	Α	13-06-2002	AU Wo Us	2092002 A 0246465 A2 2003203372 A1	18-06-2002 13-06-2002 30-10-2003
EP 1225224	Α	24-07-2002	AU EP WO	7452300 A 1225224 A1 0125427 A1	10-05-2001 24-07-2002 12-04-2001